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REVIEWS

Yearbook for 1910. Illinois State Geol. Survey, Bull. No. 20, 1915. Pp. 165, pls. 14, figs. 8.

Besides the administrative report and mineral production statistics, this bulletin contains five papers of geologic interest. These reports are based on work done in co-operation with the U. S. Geological Survey.

The report of F. H. Kay on the Carlinville oil and gas field and of E. W. Shaw on the Carlyle oil field were prepared in 1911, when those fields were being developed. Both are located in south central Illinois. The rocks are monoclinal, eastward-dipping Mississippian and Pennsylvanian strata covered by glacial drift. Minor irregularities of structure determine the location of the oil pools. The Carlyle oil sands are in the upper Chester; those at Carlinville near the base of the Coal Measures. The production of both fields has decreased rapidly since 1912.

The report of E. T. Savage on the geology and mineral resources of the Springfield quadrangle appeared, in abbreviated form, as Folio 188 of the U.S. Geological Survey.

S. W. Parr contributes a paper on the valuation of coal for gas manufacture.

E. W. Shaw describes extinct Pleistocene lakes in the valleys of tributaries of the Ohio and Mississippi. The mouths of certain tributaries were dammed by aggradation by the master-streams. The deposits subsequently deposited in the ponded waters thin out upstream. The older of the lake beds are slightly younger than the Illinois till; later deposits are of Wisconsin age.

H. R. B.

Mississippi, Its Geology, Geography, Soils, and Mineral Resources. By E. N. LOWE. Miss. State Geol. Survey, Bull. No. 12, 1915. Pp. 335, pls. 28.

This volume is unique among recent state geological survey reports. The bulletin was prepared as a non-technical summary of the geology, geography, mineral resources, underground waters, and soils of the state. By the introduction of preliminary chapters treating of geologic processes, it becomes an elementary geologic textbook for the people of